

Table A2.1. Summary of sequencing result, taxonomic identification, and OTU classification of 183 bacterial endophytes in the collection. Isolates in bold were used for the functional characterization experiment.

Isolate	OTU	Genus	Family	Phylum	Host
HA-018	1	Bacillus	Bacillaceae	Firmicutes	H7996
HA-019	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-020	1	Bacillus	Bacillaceae	Firmicutes	H7996
HA-021	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-022	3	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-023	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-024	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-025	4	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-026	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-027	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-028	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-029	6	Agrobacterium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-030	7	Salmonella	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-031	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-032	1	Bacillus	Bacillaceae	Firmicutes	H7996
HA-033	8	Mitsuaria	Comamonadaceae	Beta Proteobacteria	H7996
HA-034	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-035	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-036	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-037	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-038	9	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-039	30	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	H7996
WV-040	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	WV
WV-041	35	Herbaspirillum	Oxalobacteraceae	Beta Proteobacteria	WV
WV-042	10	Pantoea	Erwiniaceae	Gamma Proteobacteria	WV
WV-043	54	Xanthomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-044	11	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-045	12	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-046	13	Chryseobacterium	Flavobacteriaceae	Bacteroidetes	WV
WV-047	1	Bacillus	Bacillaceae	Firmicutes	WV
WV-048	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-049	54	Xanthomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-050	37	Sinorhizobium	Rhizobiaceae	Alpha Proteobacteria	WV
WV-051	14	Flavobacterium	Flavobacteriaceae	Bacteroidetes	WV
WV-052	40	Microbacterium	Microbacteriaceae	Actinobacteria	WV
WV-053	15	Sphingobium	Sphingomonadaceae	Alpha Proteobacteria	WV
WV-054	16	Microbacterium	Microbacteriaceae	Actinobacteria	WV
WV-055	17	Leifsonia	Microbacteriaceae	Actinobacteria	WV
WV-056	1	Bacillus	Bacillaceae	Firmicutes	WV
WV-057	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-058	18	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-059	19	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-060	8	Mitsuaria	Comamonadaceae	Beta Proteobacteria	WV
WV-061	54	Xanthomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-062	40	Microbacterium	Microbacteriaceae	Actinobacteria	WV
HA-063	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-064	20	Bacillus	Bacillaceae	Firmicutes	H7996
HA-065	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-066	21	Brevundimonas	Caulobacteraceae	Alpha Proteobacteria	H7996
HA-067	22	Microbacterium	Microbacteriaceae	Actinobacteria	H7996
HA-068	28	Bacillus	Bacillaceae	Firmicutes	H7996

HA-069	6	Agrobacterium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-070	6	Agrobacterium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-071	23	Paenibacillus	Paenibacillaceae	Firmicutes	H7996
HA-072	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-073	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-074	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-075	29	Rhizobium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-076	24	Microbacterium	Microbacteriaceae	Actinobacteria	H7996
HA-077	25	Brevibacterium	Brevibacteriaceae	Actinobacteria	H7996
HA-078	26	Bacillus	Bacillaceae	Firmicutes	H7996
HA-079	23	Paenibacillus	Paenibacillaceae	Firmicutes	H7996
HA-080	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-081	27	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-082	6	Agrobacterium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-083	27	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-084	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-085	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-086	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-087	6	Agrobacterium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-088	11	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-089	29	Rhizobium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-090	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-091	30	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	H7996
HA-092	30	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	H7996
HA-093	31	Paenibacillus	Paenibacillaceae	Firmicutes	H7996
WV-094	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	WV
WV-095	11	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-096	13	Chryseobacterium	Flavobacteriaceae	Bacteroidetes	WV
WV-097	10	Pantoea	Erwiniaceae	Gamma Proteobacteria	WV
WV-098	32	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-099	33	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-100	34	Achromobacter	Alcaligenaceae	Beta Proteobacteria	WV
WV-101	35	Herbaspirillum	Oxalobacteraceae	Beta Proteobacteria	WV
WV-102	22	Microbacterium	Microbacteriaceae	Actinobacteria	WV
WV-103	36	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-104	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-105	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-106	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-107	14	Flavobacterium	Flavobacteriaceae	Bacteroidetes	WV
WV-108	52	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-109	37	Sinorhizobium	Rhizobiaceae	Alpha Proteobacteria	WV
WV-110	38	Brevibacterium	Brevibacteriaceae	Actinobacteria	WV
WV-111	21	Brevundimonas	Caulobacteraceae	Alpha Proteobacteria	WV
WV-112	54	Xanthomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-113	21	Brevundimonas	Caulobacteraceae	Alpha Proteobacteria	WV
WV-114	39	Paenibacillus	Paenibacillaceae	Firmicutes	WV
WV-115	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-116	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-117	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	WV
WV-118	1	Bacillus	Bacillaceae	Firmicutes	WV
WV-119	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-120	52	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-121	40	Microbacterium	Microbacteriaceae	Actinobacteria	WV
WV-122	41	Leifsonia	Microbacteriaceae	Actinobacteria	WV
WV-123	22	Microbacterium	Microbacteriaceae	Actinobacteria	WV

WV-124	35	Herbaspirillum	Oxalobacteraceae	Beta Proteobacteria	WV
WV-125	33	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-126	28	Bacillus	Bacillaceae	Firmicutes	WV
HA-127	42	Ochrobactrum	Brucellaceae	Alpha Proteobacteria	H7996
HA-128	43	Streptomyces	Actinomycetaceae	Actinobacteria	H7996
HA-129	44	Bacillus	Bacillaceae	Firmicutes	H7996
HA-130	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-131	45	Arthrobacter	Micrococcaceae	Actinobacteria	H7996
HA-132	46	Curtobacterium	Microbacteriaceae	Actinobacteria	H7996
HA-133	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-134	49	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-135	44	Bacillus	Bacillaceae	Firmicutes	H7996
HA-136	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-137	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-138	6	Agrobacterium	Rhizobiaceae	Alpha Proteobacteria	H7996
HA-139	47	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-140	42	Ochrobactrum	Brucellaceae	Alpha Proteobacteria	H7996
HA-141	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-142	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-143	42	Ochrobactrum	Brucellaceae	Alpha Proteobacteria	H7996
HA-144	49	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-145	50	Ochrobactrum	Brucellaceae	Alpha Proteobacteria	H7996
HA-146	50	Ochrobactrum	Brucellaceae	Alpha Proteobacteria	H7996
HA-147	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-148	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-149	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-150	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-151	2	Bacillus	Bacillaceae	Firmicutes	H7996
HA-152	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-153	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	H7996
HA-154	42	Ochrobactrum	Brucellaceae	Alpha Proteobacteria	H7996
HA-155	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-156	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
HA-157	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-158	28	Bacillus	Bacillaceae	Firmicutes	H7996
HA-159	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	H7996
WV-160	18	Stenotrophomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-161	51	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	WV
WV-162	11	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-163	10	Pantoea	Erwiniaceae	Gamma Proteobacteria	WV
WV-164	13	Chryseobacterium	Flavobacteriaceae	Bacteroidetes	WV
WV-165	10	Pantoea	Erwiniaceae	Gamma Proteobacteria	WV
WV-166	13	Chryseobacterium	Flavobacteriaceae	Bacteroidetes	WV
WV-167	10	Pantoea	Erwiniaceae	Gamma Proteobacteria	WV
WV-168	22	Microbacterium	Microbacteriaceae	Actinobacteria	WV
WV-169	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-170	10	Pantoea	Erwiniaceae	Gamma Proteobacteria	WV
WV-171	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-172	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	WV
WV-173	22	Microbacterium	Microbacteriaceae	Actinobacteria	WV
WV-174	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-175	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-176	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-177	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-178	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV

WV-179	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-180	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-181	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-182	52	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-183	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-184	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-185	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-186	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-187	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-188	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-189	48	Pseudomonas	Pseudomonadaceae	Gamma Proteobacteria	WV
WV-190	40	Microbacterium	Microbacteriaceae	Actinobacteria	WV
WV-191	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-192	35	Herbaspirillum	Oxalobacteraceae	Beta Proteobacteria	WV
WV-193	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	WV
WV-194	53	Phyllobacterium	Phyllobacteriaceae	Alpha Proteobacteria	WV
WV-195	54	Xanthomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-196	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-197	28	Bacillus	Bacillaceae	Firmicutes	WV
WV-198	54	Xanthomonas	Xanthomonadaceae	Gamma Proteobacteria	WV
WV-199.1	55	Bacillus	Bacillaceae	Firmicutes	WV
WV-199.2	5	Enterobacter	Enterobacteriaceae	Gamma Proteobacteria	WV

Status	Note	16S rRNA Sequence
High-frequency		GGAGCTTGCTCCCGGATGTTAGCGGCGGACGGGTGATTAACACGT
H7996 exclusive		TGCAGTCGAGCGAATGGATTAAGAGCTTGCTCTTATGAAGTTAGCC
High-frequency		GGAGCTTGCTCCCGGATGTTAGCGGCGGACGGGTGATTAACACGTGGC
High-frequency		ATTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAACGGTAGCAC
H7996 exclusive		AACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGATGAAAG
H7996 exclusive		GTCGAGCGAATGGATTAAGAGCTTGCTCTTATGAAGTTAGCGGCGGAC
High-frequency		TGCAAGTCGAGCGGTAGCACAGGGAGCTTGCTCCTGGGTGACGAGCGC
H7996 exclusive		TCGAGCGGATGAGAGGAGCTTGCTCTTCGATTTCAGCGGCGGACGG
H7996 exclusive		CAAGTCGAGCGAATGGATTAAGAGCTTGCTCTTATGAAGTTAGCGGCG
H7996 exclusive		TTATTGGAGAGTTTGATCCTGGCTCAGGATGAACGCTGGCGGCGTGCC
High-frequency		ACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGTAGCACAG
H7996 exclusive		ACGCCCCGCAAGGGGAGTGGCAGACGGGTGAGTAACGCGTGGGAA
H7996 exclusive		GGCGGCAGGCCTAACACATGCAAGTCGAACGGTAACAGGAAGCAG
High-frequency		CATGCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGC
High-frequency		GGAGCTTGCTCCCGGATGTTAGCGGCGGACGGGTGATTAACACGTGGC
High-frequency		AGAGTTTGATCCTGGCTCACATTGAACGCTGGCGGCATGCCTTACA
H7996 exclusive		GTCGAGCGAATGGATTGAGAGCTTGCTCTCAAGAAGTTAGCGGCGGAC
High-frequency		TGCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCC
High-frequency		ATTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAACGGTAGCAC
High-frequency		AGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCGGAC
H7996 exclusive		ATTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGATG
H7996 exclusive		AGTGAACGCTGGCGGTAGGCCTAACACATGCAAGTCGAACGGCAGCAC
High-frequency		AGTCGAGCGGTAGCCAGAGAGCTTGCTCTCGGGTGACGAGCGGCGGAC
WV exclusive		TTGAACGCTGGCGGCATGCCTTACACATGCAAGTCGAACGGCAGCATA
WV exclusive		GGCCTAACACATGCAAGTCTGACGGTAGCACAGAGGAGCTTGCTC
WV exclusive		CATGCAAGTCGAACGGCAGCACAGTAAGAGCTTGCTCTTATGGGTGGC
High-frequency		GGCAGGCCTAACACATGCAAGTCGAGCGGATGAAAGGAGCTTGCT
WV exclusive		AGTGAACGCTGGCGGTAGGCCTAACACATGCAAGTCGAACGGCAG
WV exclusive		TTTTTTATTGGCTCAGGATGAACGCTAGCGGGAGGCCTAACACATC
High-frequency		GGAGCTTGCTCCCGGATGTTAGCGGCGGACGGGTGATTAACACGTGGC
High-frequency		GACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCGGACGGGTGAGTA
WV exclusive		AGTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAACGGCAGCAC
WV exclusive		TAACGCGTGGAATCTACCCTTTTCTACGGAATAACGCAGGGAAACTT
WV exclusive		GATCGCNGCTACCATGCAAGTCGAGGGGTAGAGCACTTCGGTGCT
WV exclusive		CATGCAAGTCGAACGGTGACACGGAGCTTGCTCTGTGGGATCAGTGGC
WV exclusive		AGAGTTTGATCCTGGCTCAGAACGAACGCTGGCGGCATGCCTAAT
WV exclusive	No Growth	CCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGA
WV exclusive	No Growth	GAGCTTGCTCTAGGGGATTAGTGGCGAACGGGTGAGTAACACGTGAGT
High-frequency		GCTTGCTCCCGGATGTTAGCGGCGGACGGGTGATTAACACGTGGGTAA
High-frequency		ACATGCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCC
WV exclusive		TGGCTCAGAGTGAACGCTGGCGGTAGGCCTNANACATGCAAGTCG
WV exclusive		ATTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGATG
High-frequency		AGAGTTTGATCCTGGCTCACATTGAACGCTGGCGGCATGCCTTACA
WV exclusive		CATGGCAAGTCGAACGGCAGCACAGTAAGAGCTTGCTCTTATGGGTGG
WV exclusive		CATGCAAGTCGAACGGTGACACGGAGCTTGCTCTGTGGGATCAGTGGC
High-frequency		TGCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCC
H7996 exclusive		TGCAGTCGAGCGAATCGATGGGAGCTTGCTCCCTGAGATTAGCGG
High-frequency		TTTGAGTTTTGANTTCCCCGCTCAGGACGAACGCTGGCGGCGTGCT
High-frequency		TAGAGTTTGATCATGGCTCAGAGCGAACGCTGGCGGCAGGCCTAA
High-frequency		CCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGT
High-frequency		ACATGCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCC

H7996 exclusive		CATGCAAGTCGAACGCCCCGCAAGGGGAGTGGCAGACGGGTGAGTAA
H7996 exclusive		AGCTGGCGGCAGGCTTAACACATGCAAGTCGAACGCCCCGCAAGGGG/
H7996 exclusive		CTGCAGTCGAGCGGACTTGATGGAGTGCTTGCACTCCTGAGAGTT/
High-frequency		AAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCGGAC
High-frequency		CATGCAAGTCGAGCGGTAGCACAGGGAGCTTGCTCCTGGGTGACGAGC
High-frequency		AAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCGGAC
H7996 exclusive		GTTTGATCCTGGCTCAGAACGAACGCTGGCGGCAGGCTTAACACATGC
H7996 exclusive		CCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGT/
H7996 exclusive		GCTGGCTGCGTGCTTAACACATGCAAGTCGAACGCTGAAGCCGGG/
H7996 exclusive		GGGNGGCNNGCTATAATGCAAGTCGAGCGGACAGATGGGAGCTTG
H7996 exclusive		GCAGTCGAGCGGACTTGATGGAGTGCTTGCACTCCTGAGAGTTAGCGG
H7996 exclusive		CATGCAAGTCGAGCGAATGGATTGAGAGCTTGCTCTCATGAAGTTAGC
H7996 exclusive		TGATCCTGGCTCAGATTGAACGCTGGCGGCAGGCCTAACACATGC/
H7996 exclusive		AACGCCCCGCAAGGGGAGTGGCAGACGGGTGAGTAACGCGTGGGAAC
H7996 exclusive		ATTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGTATGAT
High-frequency		GAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCTTAATA/
High-frequency		ACGCTGGCGGCAGGCCTAACACATGCAAGTCGAACGGTAGCACAGAG/
High-frequency		AGAGTTTGATCATGGCTCAGATTGAACGCTGGCGGCAGGCCTAACACA
H7996 exclusive		GAACGAAAGCTGGCGGCAGGCTTAACACATGCAAGTCGAGCGCCCCGC
High-frequency		TCGAGCGGATGAAGGGAGCTTGCTCCTGATTACGCGGCGGACGGG
H7996 exclusive		AGAGTTTGATCCTGGCTCAGAACGAACGCTGGCGGCAGGCTTAAC/
High-frequency		TGCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGATGTTAGCGGCC
H7996 exclusive		TGGCTCAGAGTGAACGCTGGCGGTAGGCCTAACACATGCAAGTCG
H7996 exclusive		GAGCTTGCTCCTTGGGTGGCGAGTGGCGGACGGGTGAGGAATACATCC
H7996 exclusive	No Growth	AGAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCATGCCTAATACA
High-frequency		GGCGGCAGGCCTAACACATGCAAGTCGAGCGGTAGCACAGAGAGC
High-frequency		ATGAAGGGAGCTTGCTCCTGATTACGCGGCGGACGGGTGAGTAATGCC
WV exclusive		CAAGCCGAGCGGTAGAAGATCTTCGGATCTTTGAGAGCGGCGTACGGC
WV exclusive		TGCAAGTCGGACGGTAGCACAGAGGAGCTTGCTCCTCGGGTGACGAGT
WV exclusive		TGCAAGTCGAGCGGTAGAGAGAAGCTTGCTTCTCTTGAGAGCGGC/
WV exclusive		AGTGAACGCTGGCGGTAGGCCTAACACATGCAAGTCGAACGGCAG
WV exclusive		ATTGAACGCTAGCGGGATGCCCTAACACATGCAAGTCGAACGGCAG/
WV exclusive		CGACGGCAGCATAGGAGCTTGCTCCTGATGGCGAGTGGCGAACGG
High-frequency		CCTGGCTCAGGATGAACGCTGGCGGCGTGCTTAACACATGCAAGT/
WV exclusive	No Growth	AACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGATGAAAGGA/
High-frequency		GAGTTTGATCCTGGCTCAGGACGAACGCTGGCGGCGTGCTTAATA/
High-frequency		GCGGACAGATGGGAGCTTGCTCCCTGATGTTAGCGGCGGACGGGTGAC
High-frequency		GCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCGC
WV exclusive		AGGGGTAGGGCTCTTCGGAGCCTGAGACCGGCGCACGGGTGCGTAACC
WV exclusive		GCAGTCGAGCGGTAGAGAGGTGCTTGACCTCTTGAGAGCGGCGGACC
WV exclusive		CACATGCAGTCGAGCGCCCCGCAAGGGGAGCGGCAGACGGGTGAC
WV exclusive		CCTGGCTCAGGACGAACGCTGGCTGCGTGCTTAACACATGCAAGT/
High-frequency		TGGCTCAGAGCGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAAC
WV exclusive		TGGGGGACGGGTGAGGAATACATCGGAATCTACTCTTTCGTGGGGGAT
High-frequency		TAGAGTTTGATCATGGCTCAGAGCGAACGCTGGCGGCAGGCCTAA/
WV exclusive		TGCAAGTCGAGCGGAGTTATTCCTTCGGGGAACCTAGCGGCGGAC/
High-frequency		GGAGCTTGCTCCCGGATGTTAGCGGCGGACGGGCGATTAAACACGTGGC
High-frequency		GGAGCTTGCTCCCGGATGTTAGCGGCGGACGGGTGAGTAACACGTGGC
High-frequency		GGTAGCACAGAGAGCTTGCTCTCGGGTGACGAGTGGCGGACGGGTGAC
High-frequency		CTGCAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCG
High-frequency		GCGGCGGACGGGTGAGTAATGCCTAGGAATCTGCCTATTAGTGGGGG/
WV exclusive		CGGCGGACGGGTGAGTAATGCCTAGGAATCTGCCTGGTAGTGGGGGA/
WV exclusive		GATGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGGTGA
WV exclusive		GAGCTTGCTCTAGGGGATTAGTGGCGAACGGGTGAGTAACACGTG
High-frequency		CATGCAAGTCGAACGGTGAAGCAGAGCTTGCTCTGTGGATCAGTGGCC

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CGACGGCAGCATAGGAGCTTGCTCCTGATGGCGAGTGGCGAACGGGCC
AGTCGAACGGCAGCACAGGAGAGCTTGCTCTCTGGGTGGCGAGTGGCC
CTGCAAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGC
TAGAGTTTGATCCTGGCTCAGAACGAACGCTGGCGGCAGGCTTAAC
CTGGCTCAGGACGAACGCTGGCGGCGTGCTTAACACATGCAAGTC
TGCAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGG
GCGGACGGGTGAGTAATGCCTAGGAATCTGCCTATTAGTGGGGGACAA
CTGGCTCAGGAYGAACGCTGGCGGCGTGCTTAACACATGCAAGTC
GACGAACGCTGGCGGCGTGCTTAACACATGCAAGTCGAACGATGA
AAGCGAATGGATTAAGAGCTTGCTCTTATGAAGTTAGCGGCGGACGGC
ACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGCAGCGGGAAG
GCAGTCGAGCGGACAGAAGGGAGCTTGCTCCCGGATGTTAGCGGCGG/
TTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGATGAGTC
TTGAACGCTGGCGGCAGGCCTAACACATGCAAGTCGAGCGGATGAGTC
AGCTGGCGGCAGGCTTAACACATGCAAGTCGAACGCCCCGAAGGGG/
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